

## Claims

1. Communication device comprising :

- several external data sources,
- 5 - at least a local area network connecting peripherals,
- a plurality of means enabling to establish connections between the local area network and the external data sources,
- means for controlling the incoming data from the external sources and for sending them to the local area network in order to
- 10 reduce the bandwidth occupation on the local area network,

characterized in that it comprises

- means for updating signalization tables comprised in the incoming data,
- means for inserting the modified signalization tables in the
- 15 stream sent to the local area network.

2. Communication device according to claim 1 characterized in that it is intended to establish one connection with an external source upon request of peripherals of the local area network.

20

3. Communication device according to any of claims 1 or 2 characterized in that it comprises filtering means intended to remove some data coming from the external sources to create a single program transport stream or a partial multiple program transport stream for the local area network from the

25 multiple program transport stream selected from the external source.

4. Communication device according to any of claims 1 to 3 characterized in that it comprises

- means for updating signalization tables comprised in the incoming data,
- means for inserting the modified signalization tables in

30 the stream sent to the local area network.

5. Communication device according to any of claims 1 to 4 characterized in that the filtering means are intended to remove packets containing non-requested packet identifiers from the multiple transport streams to create the single transport streams.

5

6. Communication device according to any of claims 1 to 5 characterized in that it has means to guarantee a copy protection of the data coming from the external source.

10 7. Communication device according to any of claims 1 to 6 characterized in that the local area network is compliant with IEEE-1394 protocol.

8. Communication device according to claim 7 characterized in that it is intended to generate a data stream on the local area network compliant with  
15 DVB or DSS standard.

9. System comprising :

- Several external data sources,
- At least a local area network connecting peripherals,
- 20 - A gateway enabling to establish connections between the local area network and the external data sources, the gateway
  - being distributed among some peripherals, called gateway modules, and
  - comprising means for managing the introduction or the  
25 withdrawal of new gateways modules,
- Each gateway module comprising means enabling it to establish a complete connection between the local area network and an external source, the other gateway modules having established or not a connection with an external source,
- 30 Characterized in that each gateway module is a communication device according to claims 1 to 9.

10. Communication method between several external data sources and a local area network, said local area network connecting peripherals, comprising the step of :

- enabling the set-up of connections between the local area network and the external data sources,

characterized in that it further comprises the step of:

- controlling the incoming data from the external sources and sending them to the local area network in order to reduce the bandwidth occupation on the local area network,

said method being preferably intended to be implemented in a device according to one of claims 1 to 9.

11. Computer program product comprising program instructions for executing the steps of the method for creating semantic browsing options according to claim 10, when said program is loaded on a computer.